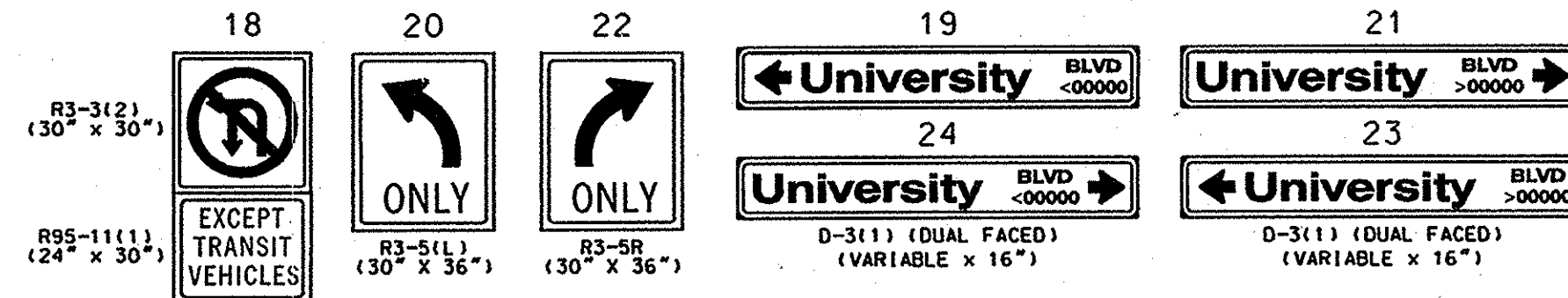


MD 193 IS ASSUMED TO RUN
IN AN EAST-WEST DIRECTION

GENERAL NOTES

1. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCE AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
2. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
3. THE CONTRACTOR SHALL NOT CUT MAST ARM AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.
4. INSTALL CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS. REFER TO SIGNING AND PAVEMENT MARKING PLANS FOR ADDITIONAL DETAILS.
5. VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
6. ALL HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
7. THE SIGNAL CONTRACTOR SHALL DETERMINE IF ANY WORK BY OTHER CONTRACTORS CAN NOT BE COMPLETED UNTIL INSTALLATION OF SIGNAL EQUIPMENT IS COMPLETE. THE SIGNAL CONTRACTOR SHALL NOTIFY OTHER CONTRACTORS OF THIS WORK.

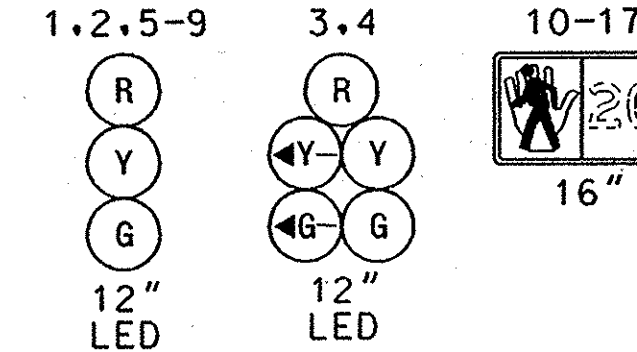
PROPOSED SIGNS



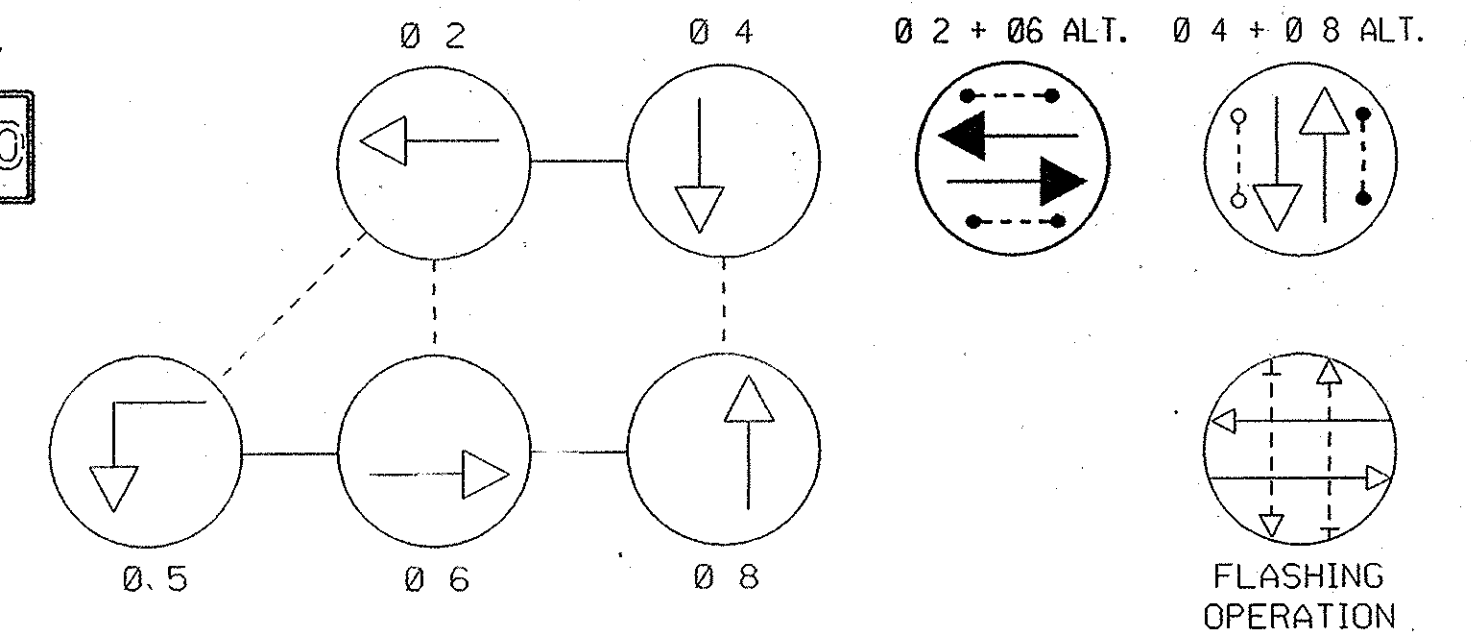
PROPOSED VIDEO DETECTION CAMERA

a, b, c
-V-

PROPOSED SIGNAL HEADS



NEMA PHASING

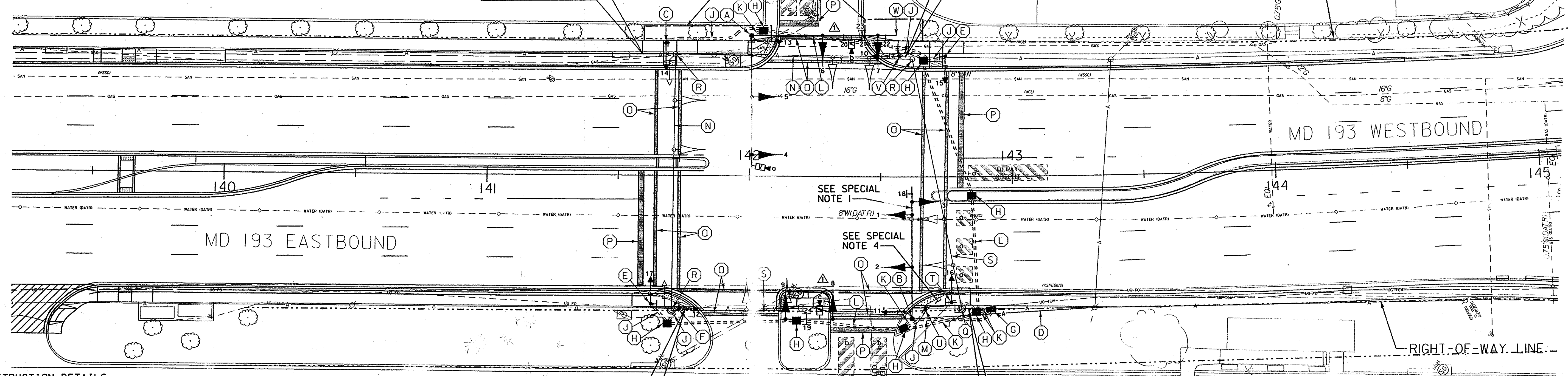


PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

SHOPPING CENTER ENTRANCE/EXIT

PROPOSED RIGHT- OF-WAY LINE



CONSTRUCTION DETAILS

- A. INSTALL 16.5 FT. (15'-0" T) STEEL POLE WITH TWIN 50 FT./60 FT. (CUT TO 55 FT.) MAST ARMS. TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS MOUNTED ON MAST ARMS AND COUNTDOWN PEDESTRIAN SIGNAL HEAD. AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS UNIVERSITY BLVD."). (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
- B. INSTALL 16.5 FT. (15'-0" T) STEEL POLE WITH TWIN 50 FT./50 FT. MAST ARM. TRAFFIC SIGNAL HEADS, SIGNS AND VIDEO DETECTION CAMERAS MOUNTED ON MAST ARMS. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
- C. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS SHOPPING CENTER ENTRANCE"). (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
- D. PROPOSED OVERHEAD ELECTRICAL SERVICE.
- E. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS UNIVERSITY BLVD."). (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
- F. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS SHOPPING CENTER ENTRANCE"). (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
- G. INSTALL NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD AND ELECTRICAL UTILITY SERVICE EQUIPMENT (120/240 V, 60 AMP). (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE).
- H. INSTALL HANDHOLE.
- I. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- J. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- K. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
- L. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- M. REMOVE EXISTING UNDERGROUND ELECTRICAL SERVICE.
- N. REMOVE EXISTING SPAN WIRE, SIGNAL HEADS AND SIGNS.
- O. INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK).
- P. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).

CABLE	19'-7"
GUY	21'-11"
SPAN	25'-9"
SECONDARY	27'-6"
PRIMARY	38'-5"

CONSTRUCTION DETAILS

- Q. REMOVE EXISTING STRAIN POLE AND POLE MOUNTED CABINET. REMOVE FOUNDATION 12 IN. BELOW GRADE.
- R. REMOVE EXISTING STRAIN POLE. REMOVE FOUNDATION 12 IN. BELOW GRADE.
- S. REMOVE EXISTING SPAN WIRE AND SIGNAL HEADS.
- T. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS UNIVERSITY BLVD."). (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
- U. INSTALL 10 FT. (CUT JUST ABOVE R10-4(1) SIGN) BREAKAWAY PEDESTAL POLE WITH AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS SHOPPING CENTER ENTRANCE"). (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
- V. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS SHOPPING CENTER ENTRANCE"). (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
- W. CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	SS
STORM DRAIN	SD
WATER	W
CABLE TV	TV

WR&A

Whitman, Reardon
and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

SPECIAL NOTES:

1. THE CONTRACTOR SHALL NOT BLOCK VIEW OF EXISTING SIGNAL INDICATIONS DURING INSTALLATION OF MAST ARM. IF NEW MAST ARM CANNOT BE INSTALLED DUE TO CONFLICT WITH EXISTING SIGNAL INDICATIONS OR SPAN WIRES, A SIGNAL OUTAGE SHALL OCCUR DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.
2. THE EXISTING TRAFFIC SIGNAL SHALL REMAIN OPERATIONAL WHILE THE PROPOSED TRAFFIC SIGNAL IS BEING CONSTRUCTED. THE CONTRACTOR SHALL RELOCATE EXISTING SIGNAL HEADS DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.
3. THE TACTILE ARROWS FOR THE AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS SHALL BE LOCATED PARALLEL TO THE CROSSWALK FOR WHICH THEY APPLY.
4. CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL EQUIPMENT TO AVOID DISTURBANCE OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL TEST PIT TO DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGNAL EQUIPMENT.

REVISIONS	APPROVALS
1. SHIFTED TRAFFIC SIGNAL HEADS FOR SHOPPING CENTER APPROACHES. ADDENDUM NO. 1. 8/01/06.	TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION
2. REBUILD TRAFFIC SIGNAL CONTRACT NO. M03335184. 4/18/06.	ASST. TRAFFIC ENGINEERING DESIGN DIVISION
	CHECK ENGINEER - TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 193 AND LANGLEY CROSSROADS/
HAMPSHIRE LANGLEY SHOPPING CENTERS

DRAWN BY: J. GORDON	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY:	S.H.A. NO.	TS-615A	
SCALE: 1" = 20'	COUNTY: PRINCE GEORGES	T.I.M.S. NO.	
DATE:	LOG MILE: 16019300.25	6309	40 OF 69